

Abstract Submitted
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P-wave electron-hydrogen scattering ANAND BHATIA,
NASA/Goddard Space Flight Center — A variational wave function incorporating short range correlations via Hylleraas type functions plus long-range polarization terms of the polarized orbital type but with smooth cut-off factors has been used to calculate P-wave phase shifts for electron-hydrogen scattering. This approach gives the direct r^{-4} potential and a non-local optical potential which is negative definite. The resulting phase shifts have rigorous lower bounds and the convergence is much faster than those obtained without the modification of the target function. Final results will be presented at the conference.

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Prefer Oral Session
Prefer Poster Session

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